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1 A high-performance parallel database architecture   100%
C. H. C. Leung , H. T. Ghogomu
Proceedings of the 7th international conference on Supercomputing August 1993
A high-performance parallel system for processing databases is presented, which adopts a distributed memory architecture and has been successfully implemented on a transputer platform. In addition to developing and implementing a variety of rules and schemes for parallelizing database queries, general analytic models for distributed memory database processing have been formulated, which have been successfully validated against measurements. Experimental data also indicate that the system is ...

2 Fast algorithms for universal quantification in large databases   99%
Goetz Graefe , Richard L. Cole
ACM Transactions on Database Systems (TODS) June 1995
Volume 20 Issue 2
Universal quantification is not supported directly in most database systems despite the fact that it adds significant power to a system's query processing and inference capabilities, in particular for the analysis of many-to-many relationships and of set-valued attributes. One of the main reasons for this omission has been that universal quantification algorithms and their performance have not been explored for large databases. In this article, we describe and compare three known algorithms ...

3 Lexical ambiguity and information retrieval   91%
Robert Krovetz , W. Bruce Croft
ACM Transactions on Information Systems (TOIS) April 1992
Volume 10 Issue 2
Lexical ambiguity is a pervasive problem in natural language processing. However, little quantitative information is available about the extent of the problem or about

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1   Response Time Analysis of Multiprocessor Computers for Database   95%
Support
Roger K. Shultz , Roy J. Zingg
ACM Transactions on Database Systems (TODS) January 1984
Volume 9 Issue 1
> Comparison of three multiprocessor computer architectures for database support is
> made possible through evaluation of response time expressions. These expressions
> are derived by parameterizing algorithms performed by each machine to execute a
> relational algebra query. Parameters represent properties of the database and
> components of the machines. Studies of particular parameter values exhibit response
> times for conventional machine technology, for low selectivity, high duplicate
> occurrence, ...

2   Query evaluation techniques for large databases   90%
Goetz Graefe
ACM Computing Surveys (CSUR) June 1993
Volume 25 Issue 2
> Database management systems will continue to manage large data volumes. Thus,
> efficient algorithms for accessing and manipulating large sets and sequences will be
> required to provide acceptable performance. The advent of object-oriented and
> extensible database systems will not solve this problem. On the contrary, modern
> data models exacerbate the problem: In order to manipulate large sets of complex
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1 PREFER: a system for the efficient execution of multi-parametric ranked **99%** queries
Vagelis Hristidis , Nick Koudas , Yannis Papakonstantinou
ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data May 2001
Volume 30 Issue 2

Users often need to optimize the selection of objects by appropriately weighting the importance of multiple object attributes. Such optimization problems appear often in operations' research and applied mathematics as well as everyday life; e.g., a buyer may select a home as a weighted function of a number of attributes like its distance from office, its price, its area, etc.

We capture such queries in our definition of preference queries that use a weight function over a relation's a ...

2 Optimizing queries over multimedia repositories **98%**
Surajit Chaudhuri , Luis Gravano
ACM SIGMOD Record , Proceedings of the 1996 ACM SIGMOD international conference on Management of data June 1996
Volume 25 Issue 2

3 Shortest-substring retrieval and ranking **97%**
Charles L. A. Clarke , Gordon V. Cormack
ACM Transactions on Information Systems (TOIS) January 2000